



HIV/AIDS in the Maryland Portion of the Washington Metropolitan Area: An Epidemiological Profile

Colin Flynn, Chief

Center for HIV Surveillance & Epidemiology

Infectious Disease & Environmental Health Admin.

Maryland Department of Health & Mental Hygiene

June 11, 2012



IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards
- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.



Outline

- National Data
- State Data
- Regional Data
- Regional Summary
- Enhancing Data Security
- Looking Forward



National Data



U.S. HIV/AIDS Prevalence

- At the end of 2009, an estimated 1.2 million Americans were infected with HIV
- It is also estimated that 20% of the infected were undiagnosed
 - CDC. HIV in the United States. Fact Sheet, Nov. 2011. Atlanta.



2010 Estimated HIV Diagnoses, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia*	939	156.7
2. Virgin Islands	47	42.8
3. Florida	5,782	31.2
4. Maryland*	1,708	30.0
5. Louisiana	1,279	28.5
6. Puerto Rico	1,118	28.2
7. New York	5,321	27.2
8. Georgia	2,581	26.3
9. New Jersey	2,207	25.3
10. South Carolina	914	20.0
<hr/>		
<i>United States**</i>	<i>48,298</i>	<i>16.3</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 19.

* Maryland DHMH estimates from CDC data.

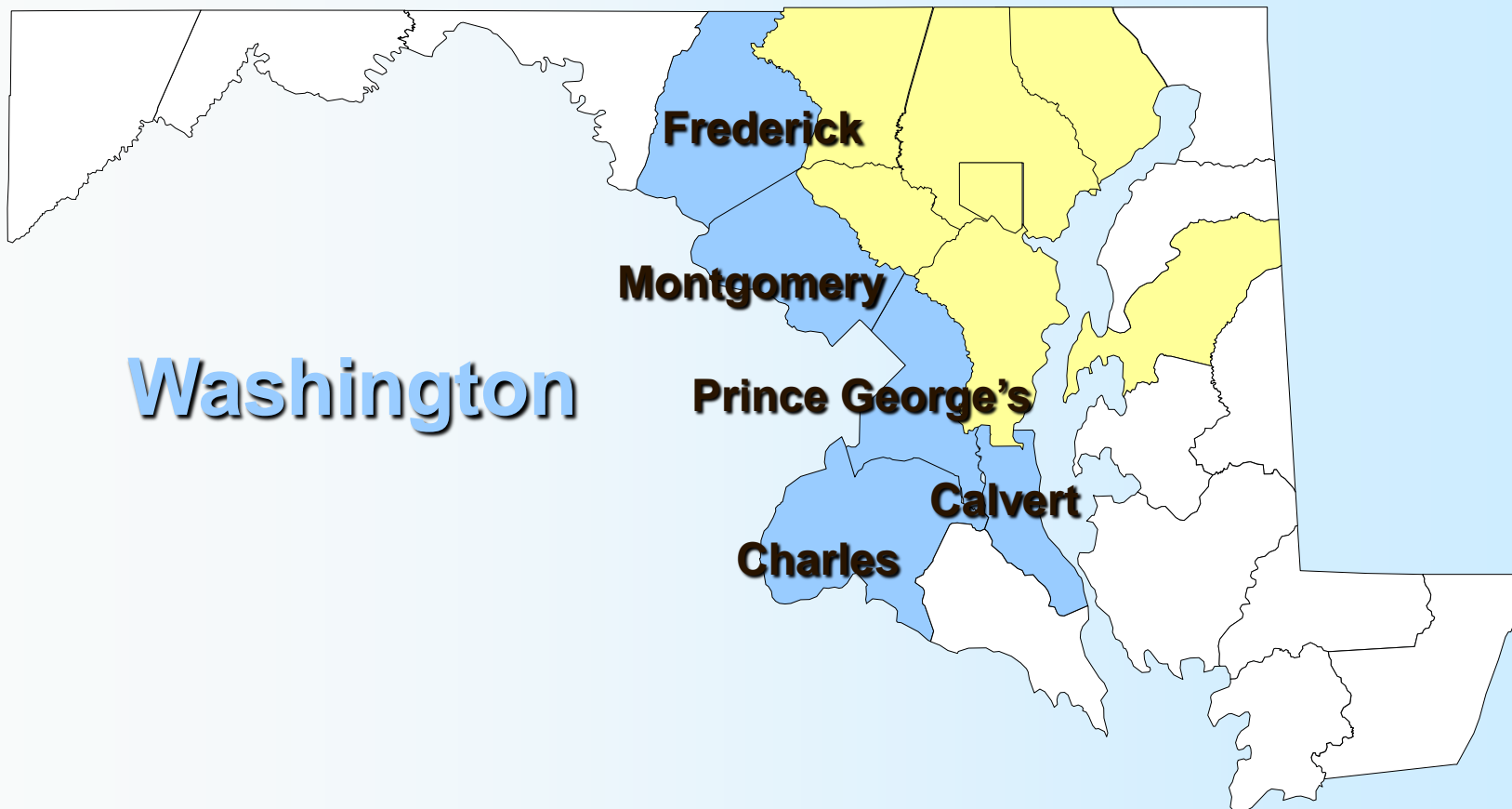
** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Maryland Ryan White Eligible Metropolitan Areas

Baltimore-Towson





2010 Estimated HIV Diagnoses, Ranked by Rates

<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. Miami, FL	2,757	49.7
2. Baton Rouge, LA	339	43.0
3. New Orleans-Metairie-Kenner, LA	439	36.9
4. <i>Washington, DC-VA-MD-WV*</i>	<i>1,995</i>	<i>36.4</i>
5. <i>Baltimore-Towson, MD*</i>	<i>951</i>	<i>35.4</i>
6. Jackson, MS	184	34.0
7. Memphis, TN-MS-AR	440	33.7
8. Orlando, FL	686	32.9
9. New York, NY-NJ-PA	6,160	32.3
10. Columbia, SC	230	30.9
<hr/>		
<i>United States**</i>	<i>47,692</i>	<i>16.3</i>

CDC. HIV Surveillance Report, 2010. Vol. 22. Table 24.

* Maryland DHMH estimates from CDC data.

** Based on 46 states and 5 territories.

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



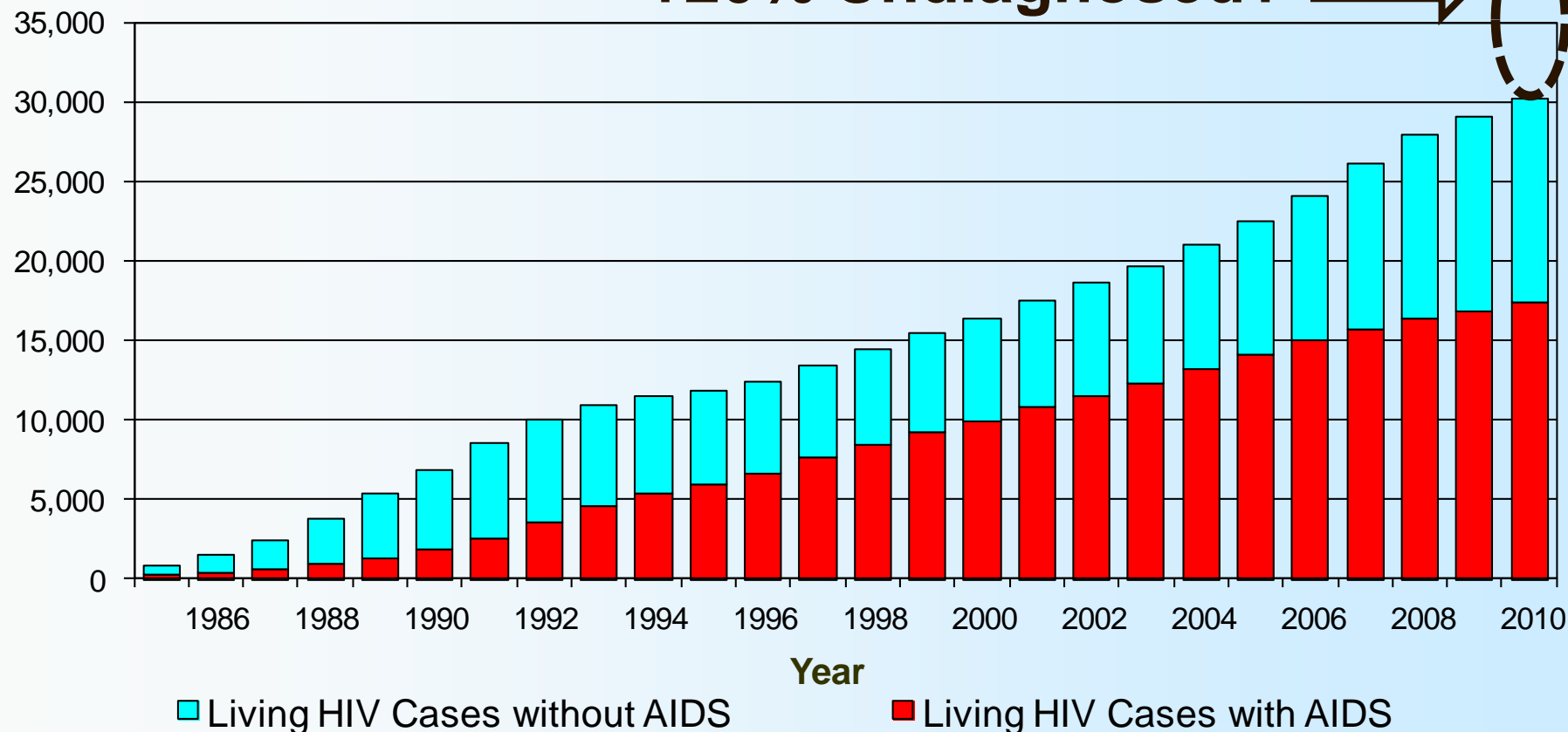
State Data



Maryland Living HIV Cases

Number of Cases

+20% Undiagnosed? →



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Maryland Adult/Adolescent HIV/AIDS Statistics



Reported Diagnoses (during 2010)	No.	per 100,000	
HIV	1,430	29.7	
AIDS	909	18.9	
Living Cases (on 12/31/10)	No.	per 100,000	1 in X
HIV without AIDS	12,465	258.8	
HIV with AIDS	17,177	356.6	
Total HIV	29,642	615.5	162

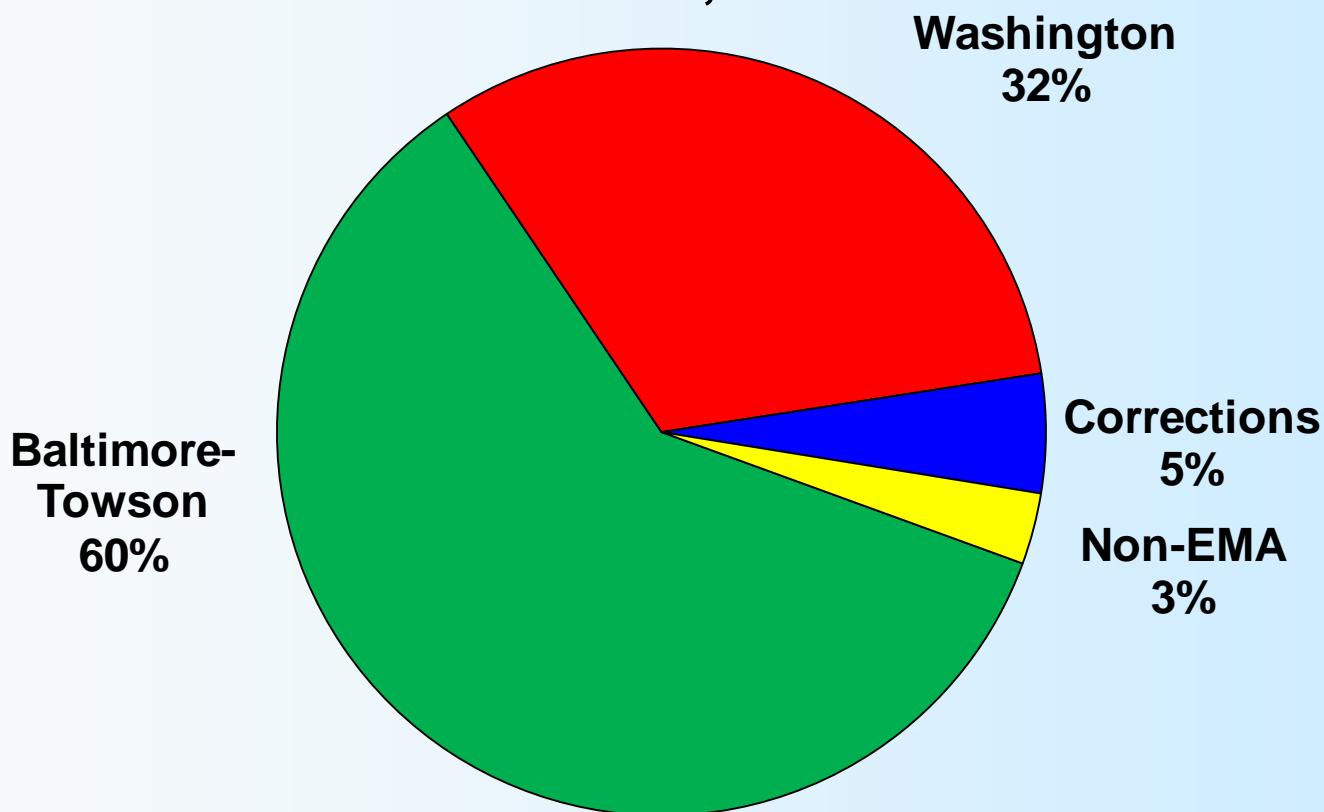
Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Maryland Living Adult/Adolescent HIV Cases by EMA, 12/31/10

N = 29,642



Using data as reported through 12/31/2011



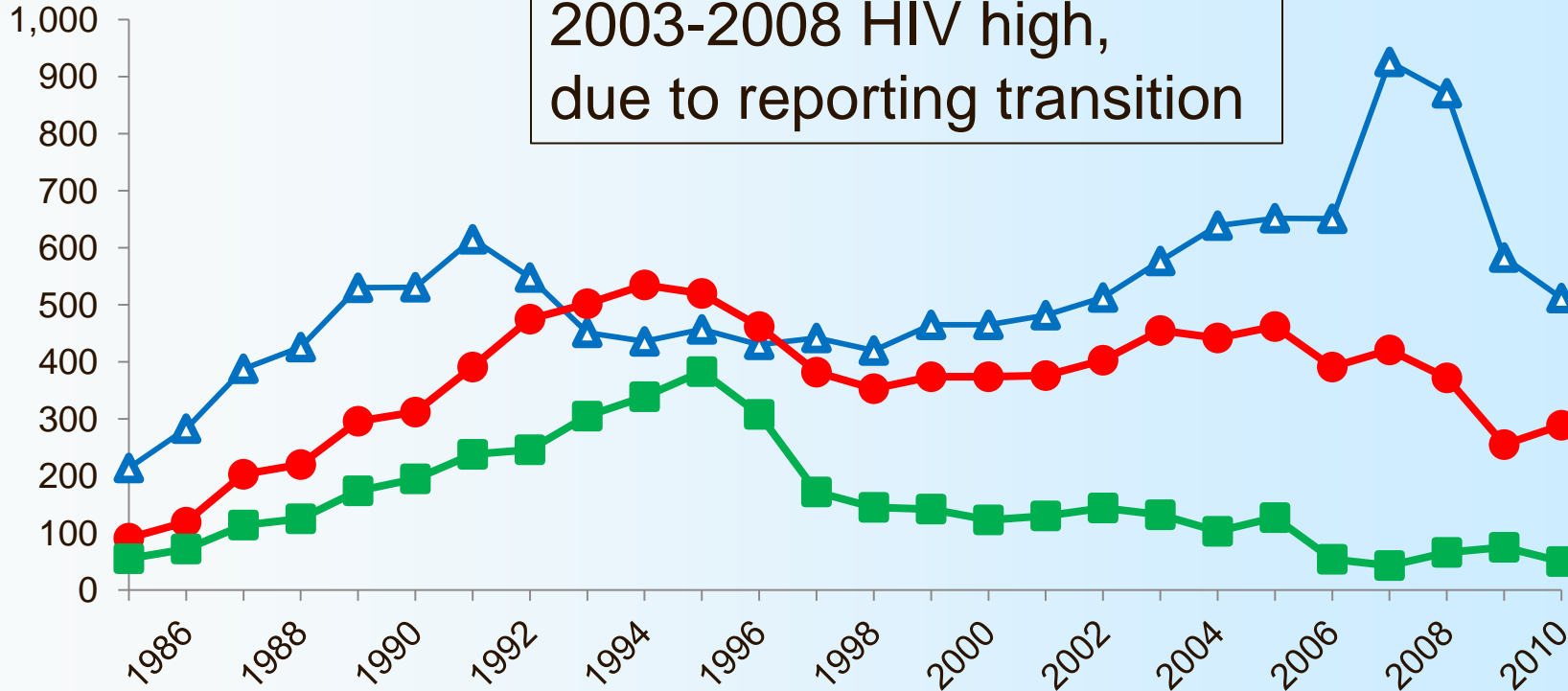
Regional Data



HIV/AIDS Trends Washington MSA (MD)



Number of Events



Year of Diagnosis or Death

▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

Using data as reported through 12/31/2011

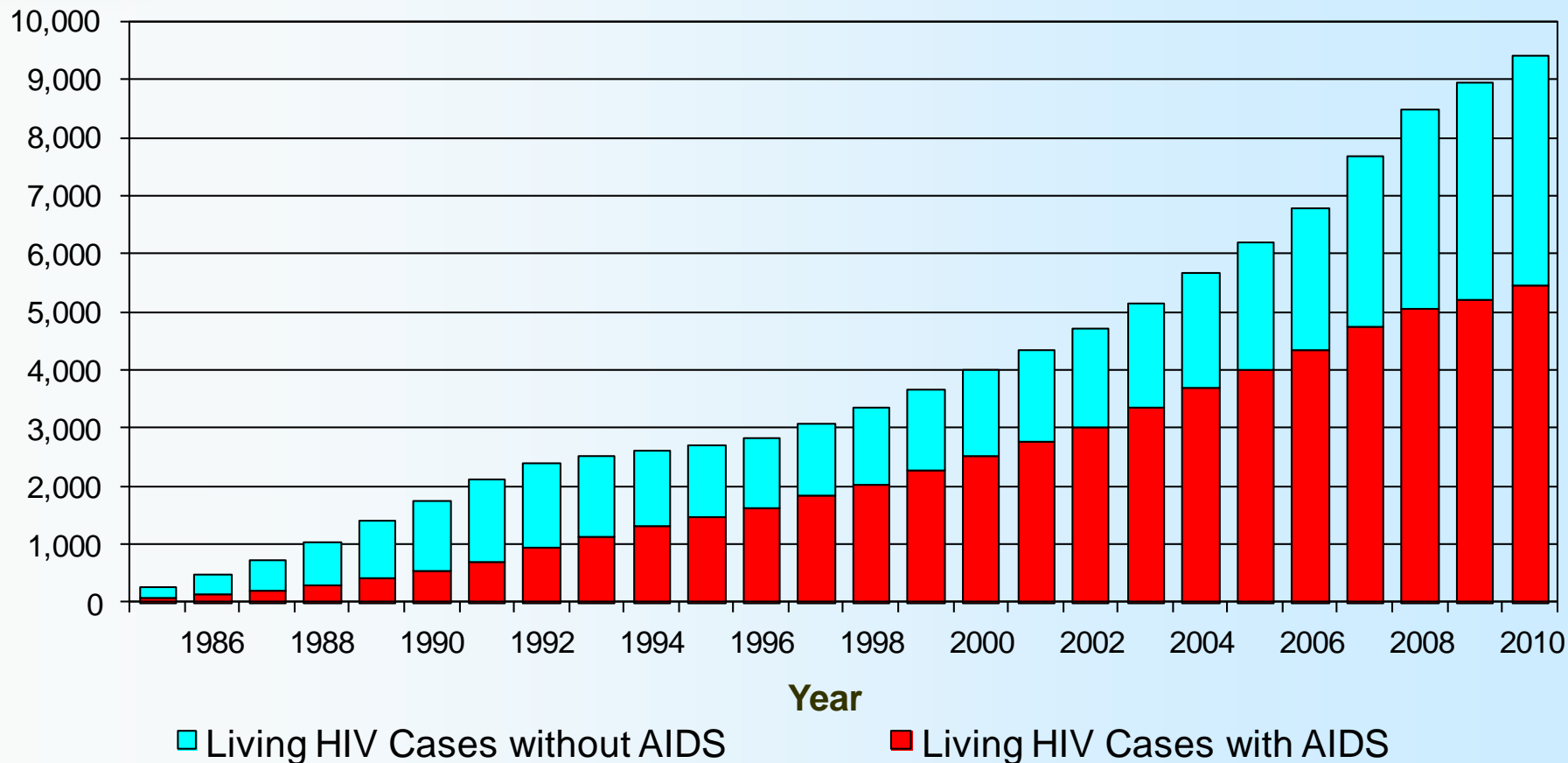
Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Living HIV Cases Washington MSA (MD)



Number of Cases



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



HIV Statistics

Adult/Adolescent Cases

Washington MSA (Maryland)

	Reported HIV Diagnoses during 2010	Living HIV Cases on 12/31/2010
Washington MSA (MD)	511	9,257
Calvert	5	99
Charles	21	298
Frederick	17	275
Montgomery	144	3,051
Prince George's	324	5,534

Using data as reported through 12/31/2011

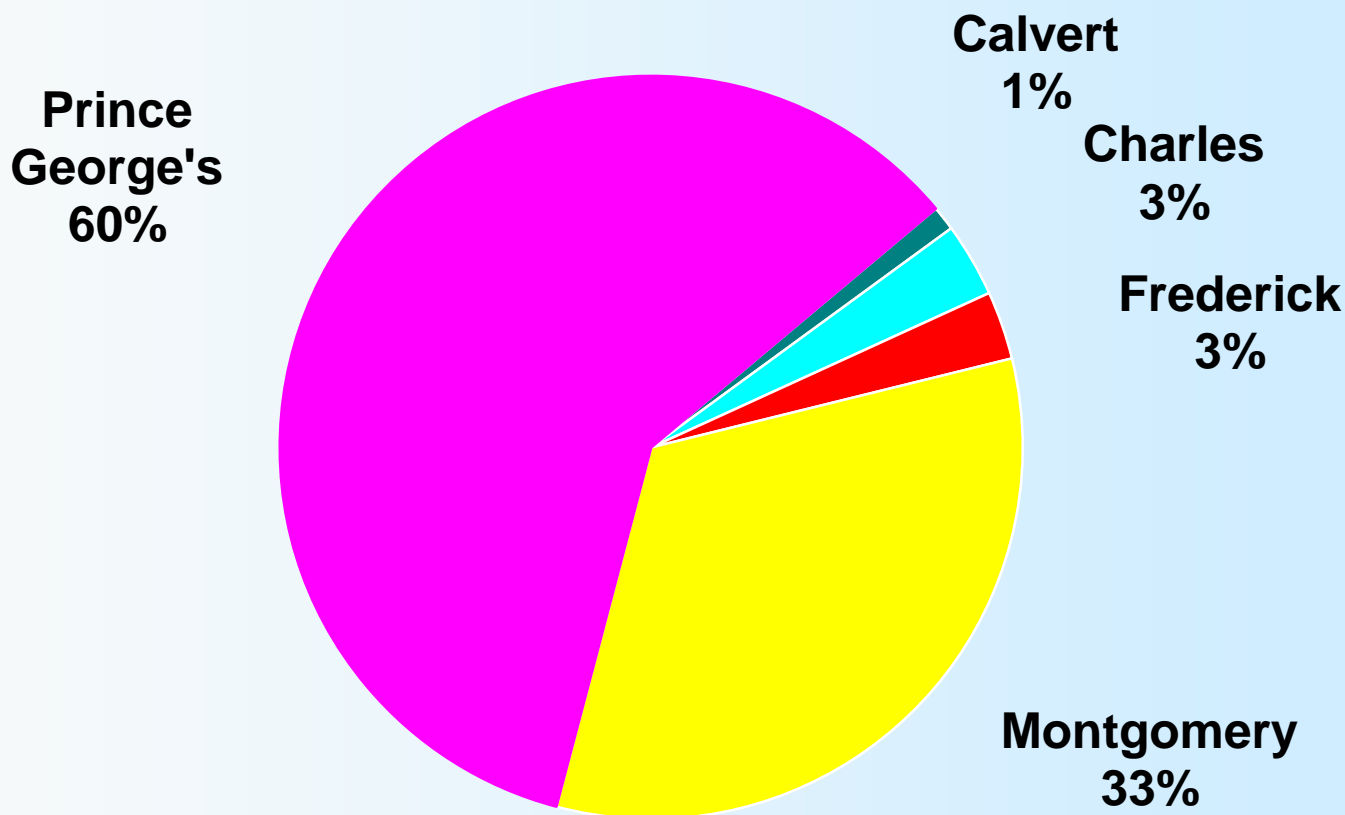
Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Washington MSA (MD), Living Adult/Adolescent HIV Cases by County, 12/31/10



N = 9,257

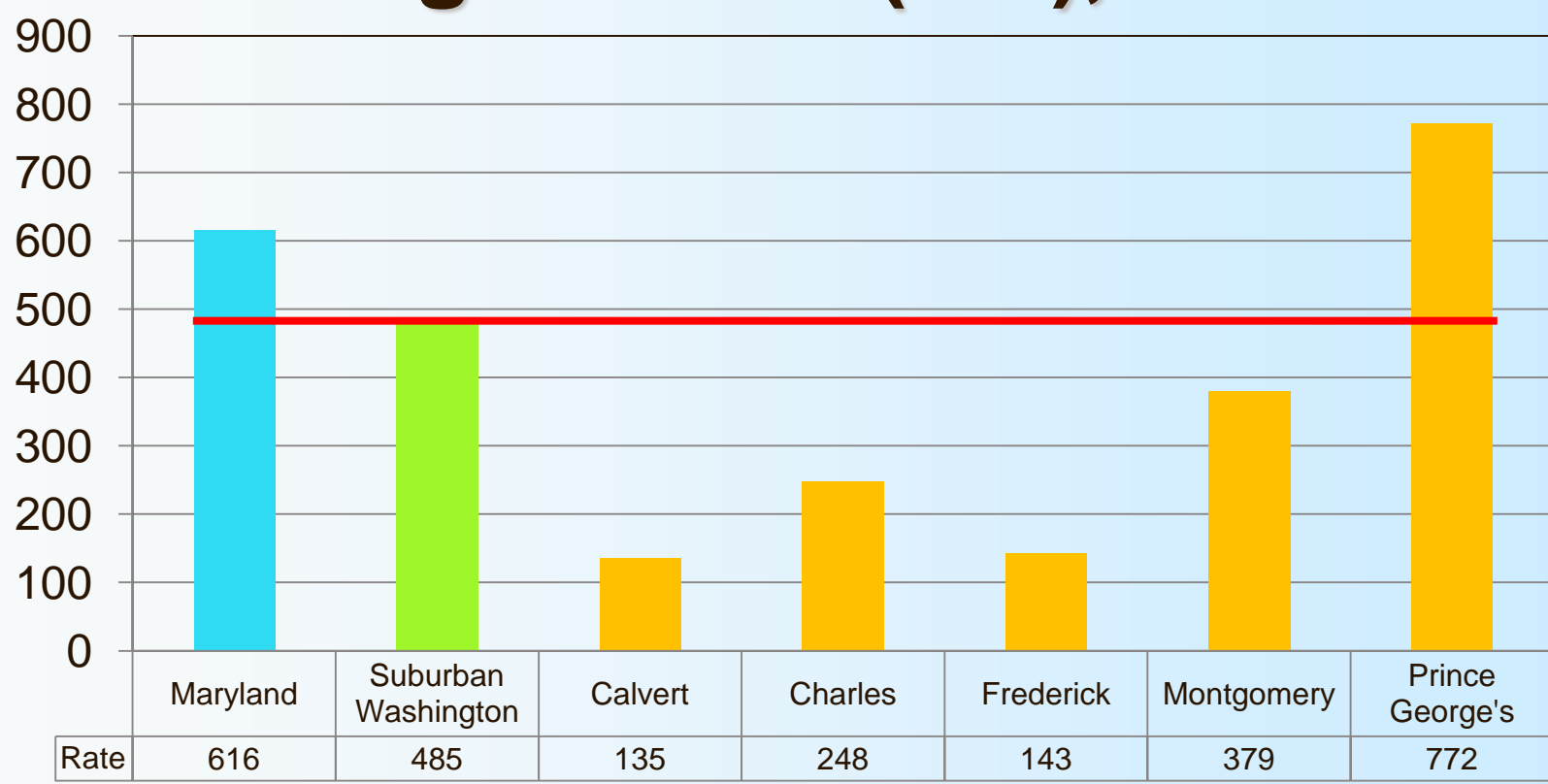


Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Living Adult/Adolescent HIV Case Rates per 100,000 Population by County, Washington MSA (MD), 12/31/10

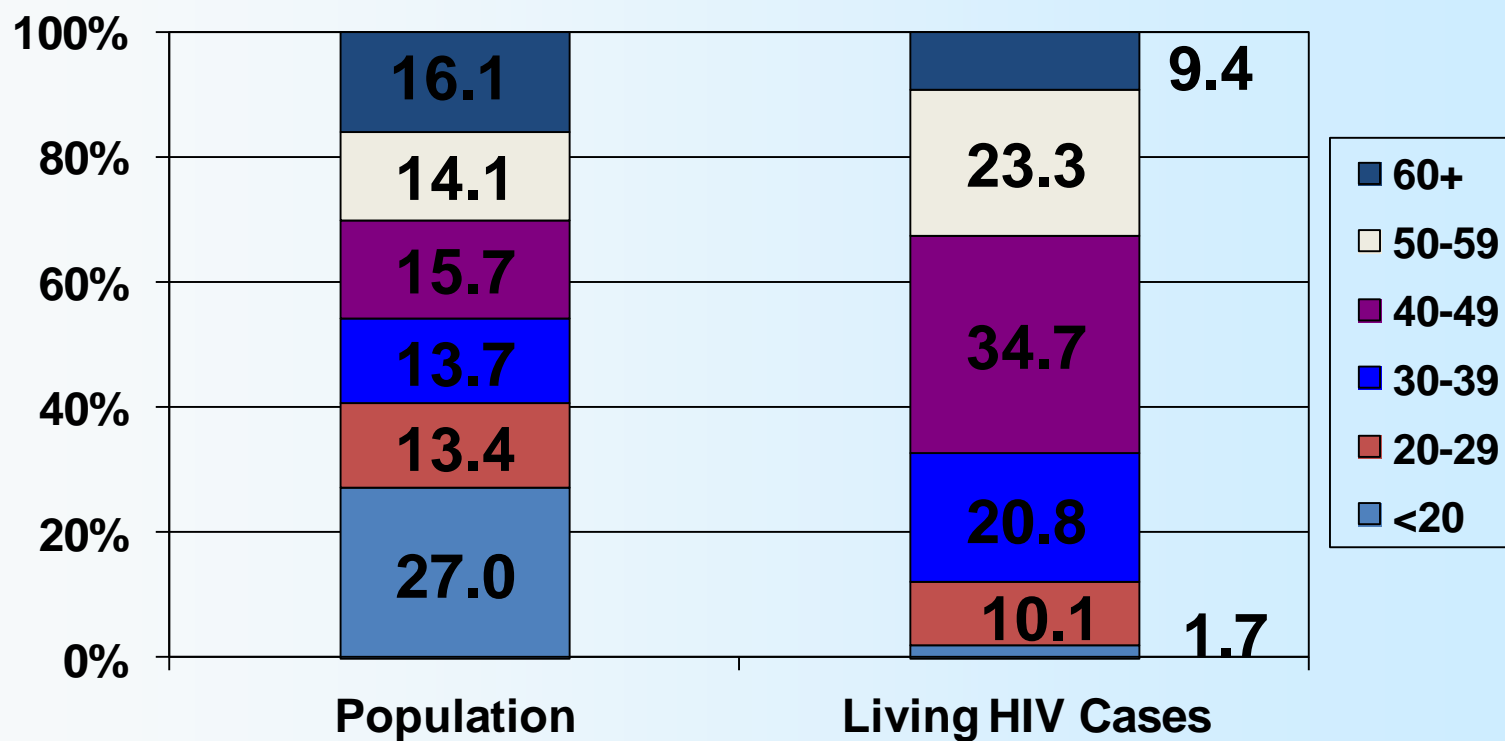


Population on 4/1/10. Cases on 12/31/10
as reported through 12/31/11

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Adult/Adolescent Population and Living HIV Cases by Age, Washington MSA (MD)

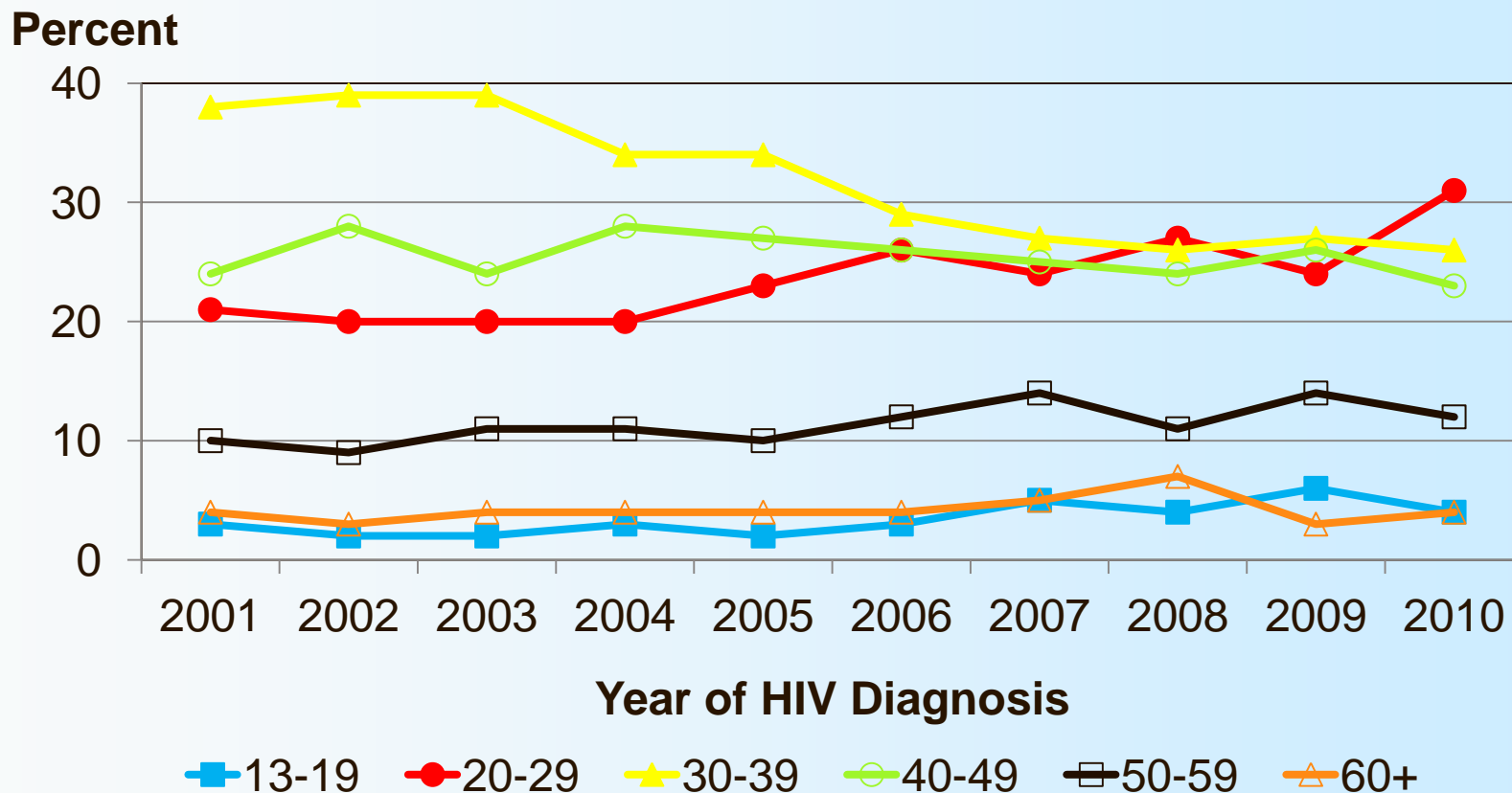


Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



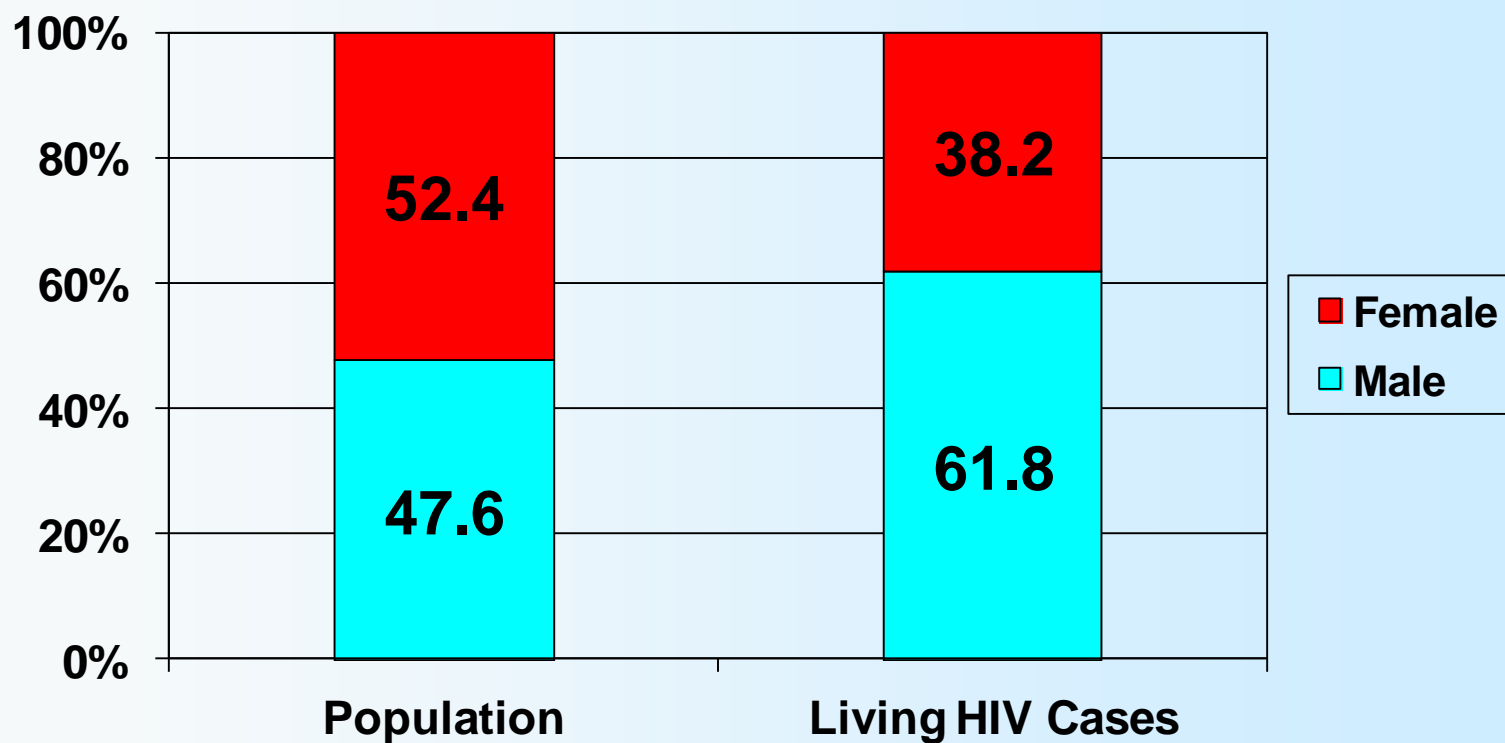
Reported Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis, Washington MSA (MD)



Using data as reported through 12/31/2011



Population and Living Adult/Adolescent HIV Cases by Sex at Birth, Washington MSA (MD)

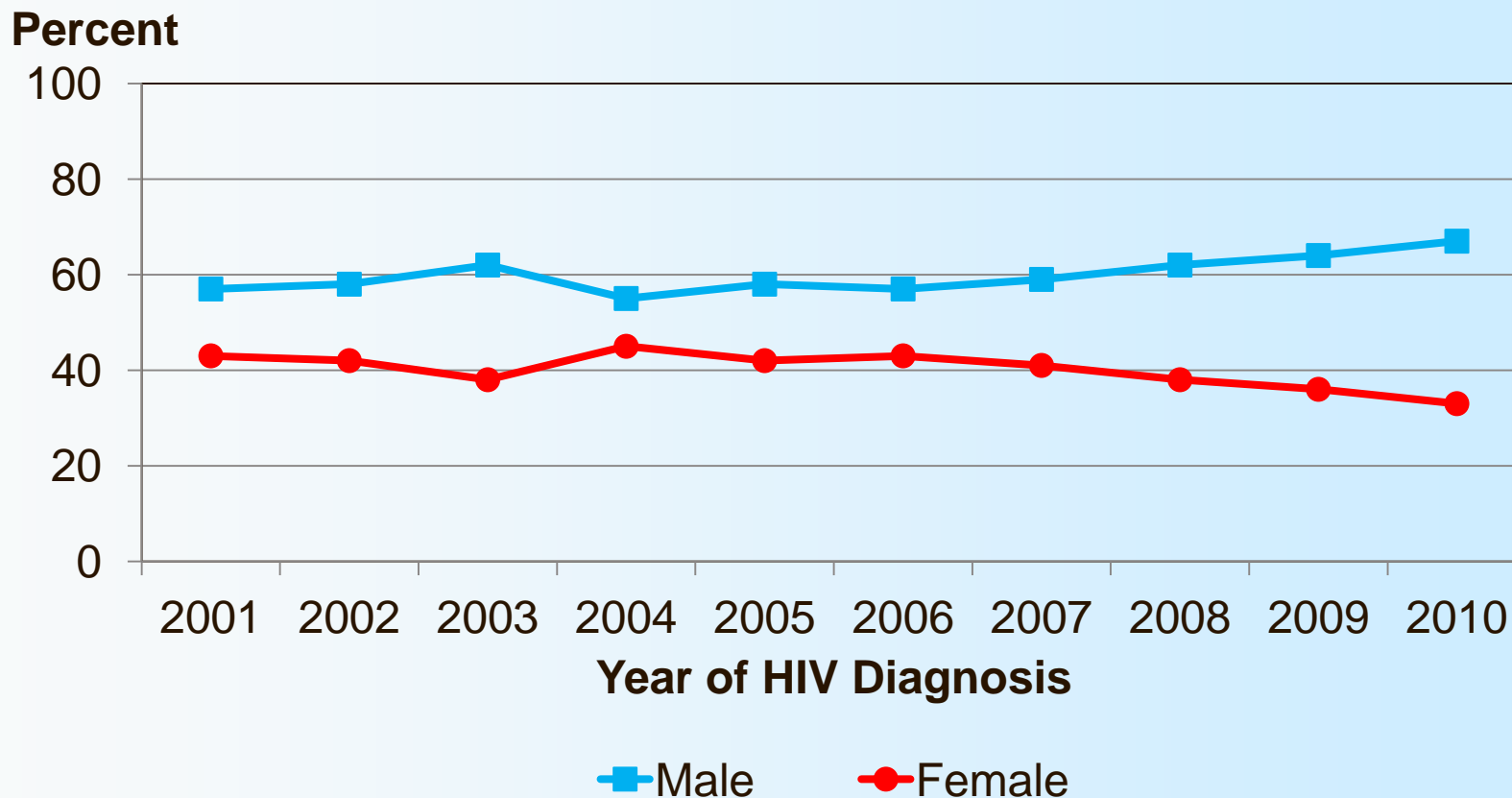


Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Reported Adult/Adolescent HIV Diagnosis Trends by Sex at Birth, Washington MSA (MD)

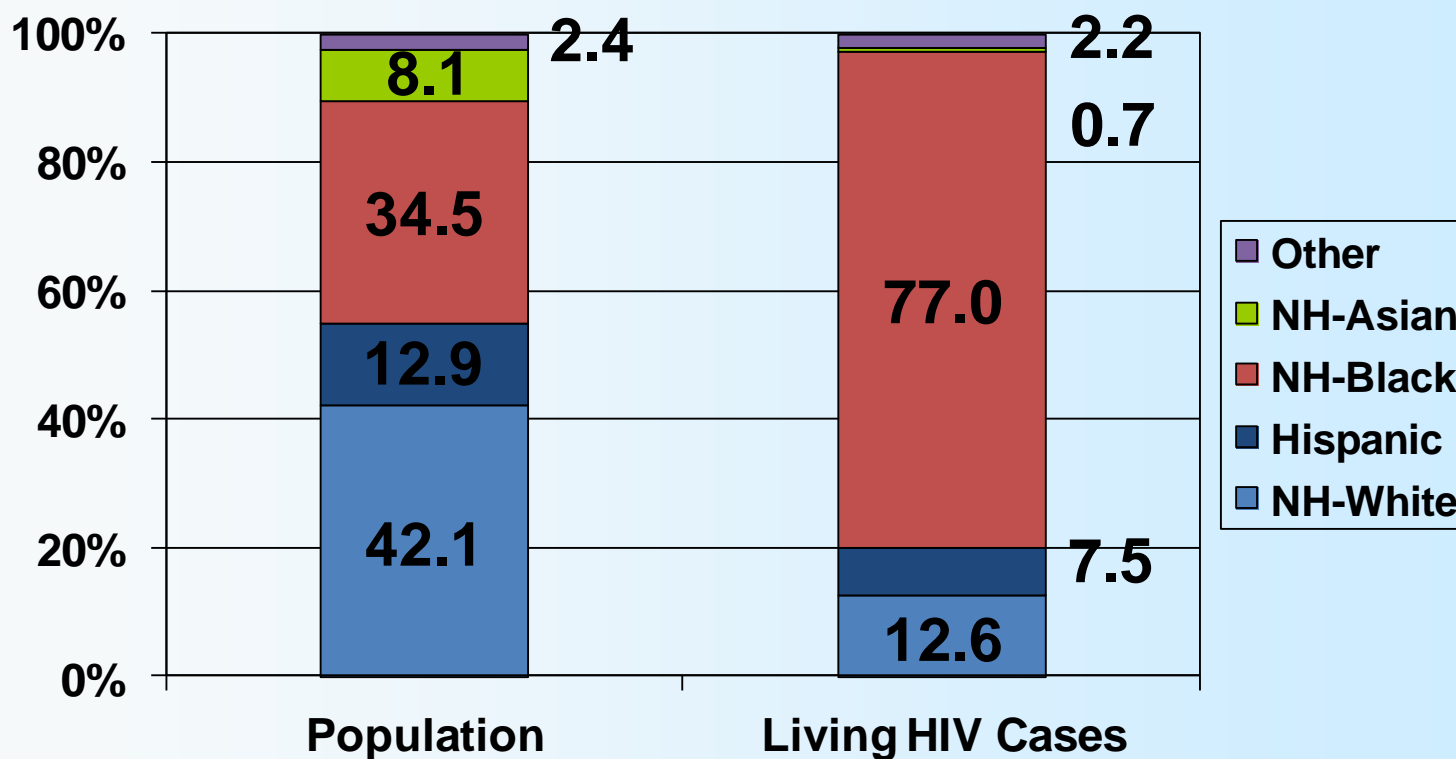


Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



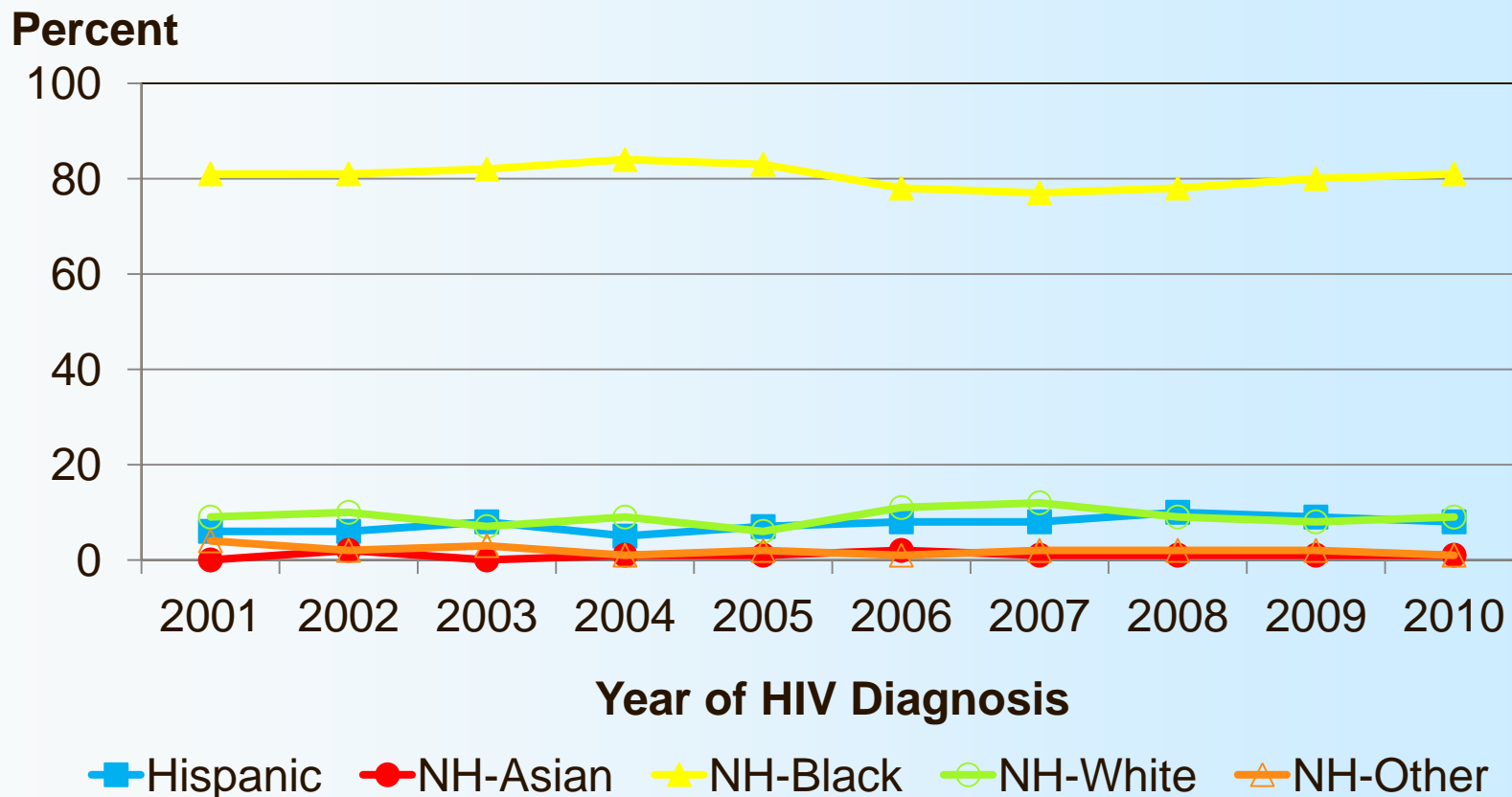
Adult/Adolescent Population and Living HIV Cases by Race/Ethnicity, Washington MSA (MD)



Population on 4/1/10, Cases on 12/31/10
as reported through 12/31/11



Reported Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity, Washington MSA (MD)



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Living Adult/Adolescent HIV Cases on 12/31/10 by Country of Birth, Washington MSA (MD)

	N	%
Total	9,257	100.0
United States	7,562	81.7
Cameroon	257	2.8
Ethiopia	169	1.8
El Salvador	111	1.2
Nigeria	61	0.7
Haiti	57	0.6
Guatemala	56	0.6
Kenya	51	0.6

+ 92 other countries

Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



Exposure Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

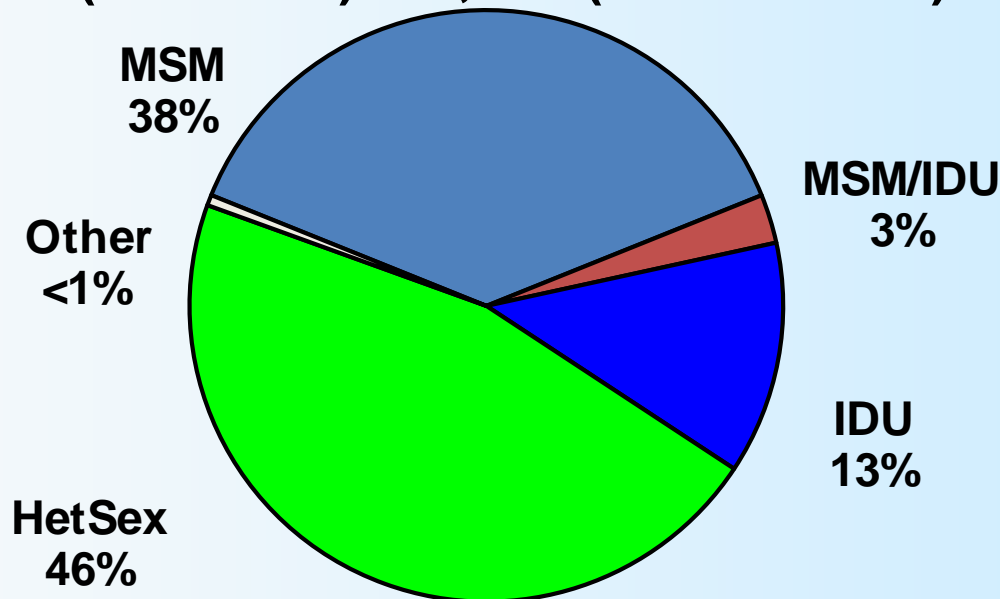
MSM/IDU: Men who have Sex with Men AND Inject Drugs

HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection



Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category, Washington MSA (MD)

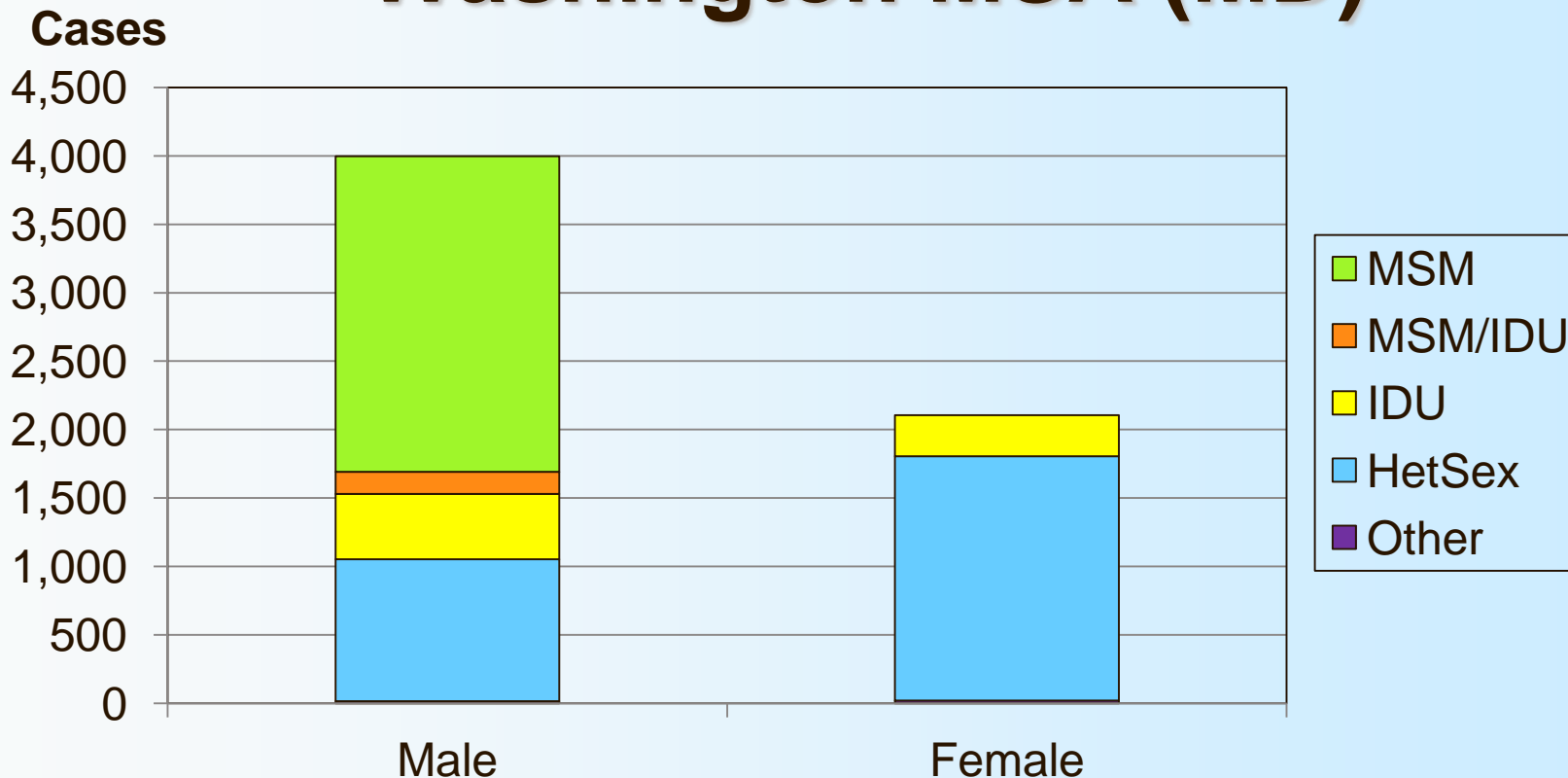
N (with Risk) = 6,103 (66% of Total)



Using data as reported through 12/31/2011



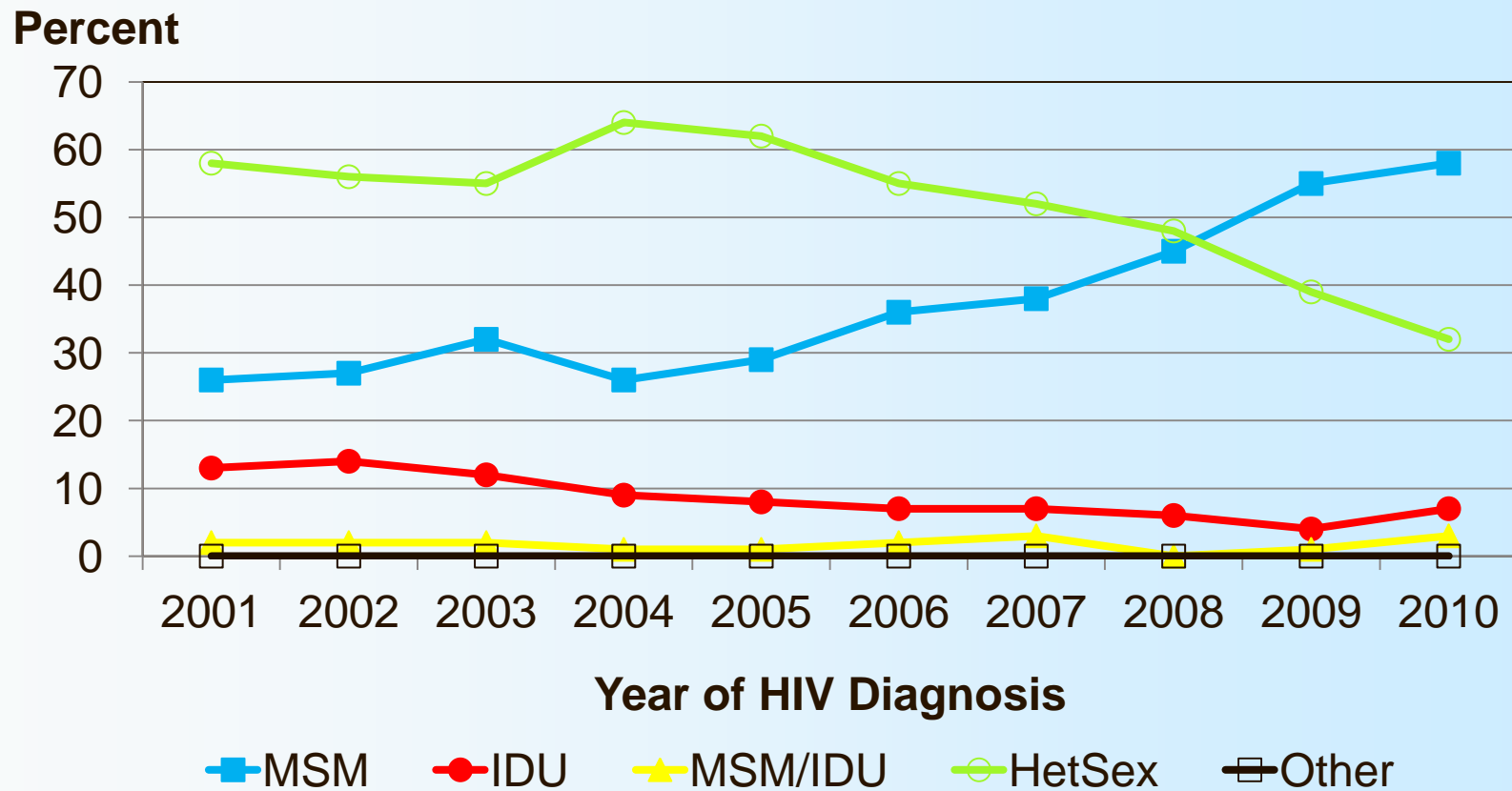
Living Adult/Adolescent HIV Cases 12/31/10 by Exposure Category and Sex at Birth Washington MSA (MD)



Using data as reported through 12/31/2011



Reported Adult/Adolescent HIV Diagnosis Trends by Exposure Category, Washington EMA (MD)



Using data as reported through 12/31/2011

Maryland Infectious Disease and
Environmental Health Administration
June 11, 2012



2010 Reported Adult/Adolescent HIV Diagnoses (N=511) Washington MSA (Maryland)



- Linkage to Care: 64% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 71% had a CD4 test within 12 months of HIV diagnosis, and the median value was 294 cells/microliter
- Late HIV Diagnosis: 32% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



2010 Reported Adult/Adolescent AIDS Diagnoses (N=286) Washington MSA (Maryland)



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 2.7 years
- Late HIV Diagnosis: 62% were diagnosed with AIDS within 12 months of their HIV diagnosis

Using data as reported through 12/31/2011



Regional Summary



HIV/AIDS in the Washington MSA (Maryland)



- There were 9,257 living adult/adolescent HIV cases at the end of 2010 and 511 reported HIV adult/adolescent diagnoses during 2010
- Prince George's County had the greatest share of cases (60%)
- Rates of living cases were two to six times higher in Prince George's than in the other counties
- HIV was being diagnosed late (32% late, median CD4 294), contributing to many AIDS diagnoses (62% had late HIV diagnosis)



HIV/AIDS in the Suburban Washington Region: Demographics



- Males were disproportionately affected (62% of cases vs. 48% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (77% vs. 34%), but the proportion Hispanic, while small (8%), was increasing
- Persons 30-59 years old were disproportionately affected (79% vs. 44%), and proportions were increasing among 20-29 and 50-59 year olds while decreasing among 30-39 year olds



HIV/AIDS in the Suburban Washington Region: Exposure Category



- Sexual transmission predominates (>84%)
 - Homosexual and heterosexual transmission among men
 - Heterosexual transmission among women
 - Male homosexual transmission proportion was increasing
 - Heterosexual transmission was decreasing
- Injection drug use is an important route of transmission (>13%), but proportion IDU was decreasing



Enhancing Data Security



New CDC Guidelines

- Released December 2011
- Required of all CDC funded HIV, viral hepatitis, STD, and TB surveillance programs
- Established minimum standards for data security and confidentiality, in order to promote data sharing for public health action



New IDEHA Policy

- To be released in Spring 2012
- Will be required of all IDEHA HIV, viral hepatitis, STI, and TB surveillance, prevention, and health services programs, including all of their partners and contractors
- Clarifies and expands on the CDC Guidelines



Program Procedures

- Each IDEHA, local health department, and contractor program will be required to develop a program-specific procedures manual detailing how they meet or exceed the CDC Guidelines and IDEHA Policies
- Data sharing will be guided by written data sharing agreements between programs
- IDEHA will assist programs in the development of their procedures



Goals

- Enhanced program data security
- Protection of individual's confidentiality
- Increased data sharing between programs
- Increased program efficiencies
- Better service to individuals
- Improved public health



Looking Forward



National HIV/AIDS Strategy



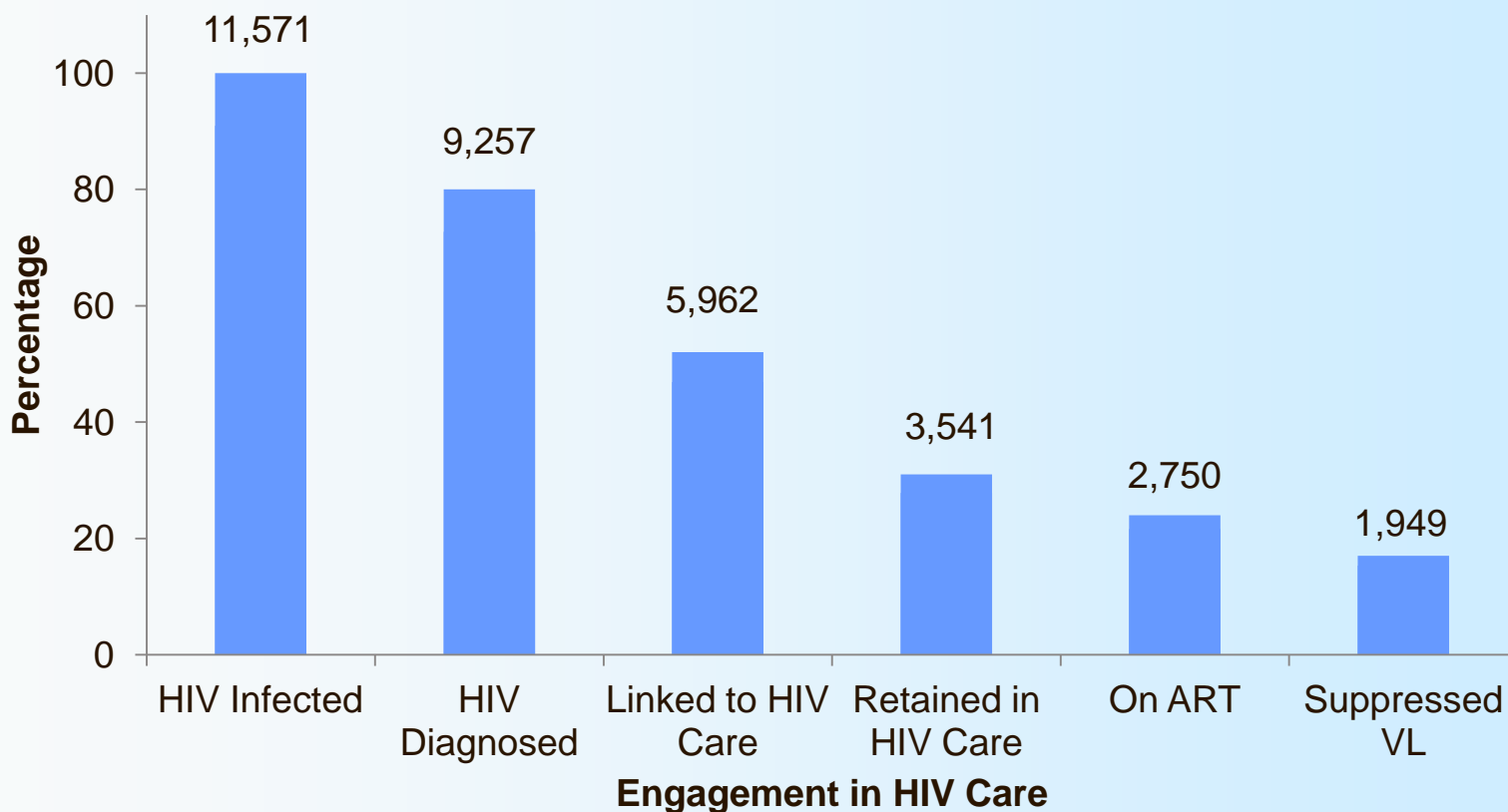
Goals:

- Reducing HIV incidence
- Increasing access to care and optimizing health outcomes
- Reducing HIV-related health disparities
- Achieving a more coordinated national response



Continuum of Care

Estimated number and percentage of HIV infected adults engaged in selected stages of the continuum of care, Washington MSA Maryland Portion 2010





Maryland Infectious Disease and Environmental Health Administration

ideha.dhmmh.maryland.gov/oideor/chse